

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A wide bandwidth discone antenna, comprising:
a circular disc;
a frusto conical cone in the form of a skeleton having elongated straight conductive members extending from the apex of the cone in a conical configuration, said apex spaced from said disc; and.
localized meander line stubs interposed in said conductive members so as to prevent high frequency signals from going past the point at which the localized meander line is interposed, the meander line acting as a loading inductor on the lower frequencies, whereby the low frequency cutoff of said antenna is decreased over a similarly sized antenna without said stubs.
2. (Original) The antenna of Claim 1, and further including a peripheral conductive ring coupled to the distal ends of said conductive members, thus to eliminate ground effects when said antenna is deployed.
3. (Original) The antenna of Claim 1, and further including a coaxial cable feed for said antenna, said coaxial cable having a center conductor coupled to said circular disc and an outside conductor coupled to said cone at the apex thereof, said center conductor extending beyond said cone to said disc.
4. (Original) The antenna of Claim 1, and further including an additional antenna in spaced adjacency to said discone antenna, a coaxial cable connected to said additional antenna at one

end thereof, said cone having an aperture, said coaxial cable running through said aperture, a ferrite toroid, said coaxial cable running through said aperture and looped around said toroid, said disc having a disc aperture and said cable after having been looped through said toroid passing through the aperture in said disc, thereby to eliminate any detuning of said discone antenna associated with a coaxial cable feed passing through an aperture in said disc.

5. (Original) The antenna of Claim 1, and further including an inductor connected between said cone and said disc for decreasing the low frequency cutoff of said discone antenna.

6. (Original) The antenna of Claim 5, and further including a coaxial cable adapted to feed an additional antenna and passing through an aperture in said disc, said coaxial cable forming one or more turns of said inductor, whereby said inductor also functions to minimize detuning associated with the passage of said coaxial cable through an aperture in said disc.

7. (Original) The antenna of Claim 6, wherein said additional antenna is a discone antenna.

8. (Original) The antenna of Claim 1, and further including an inductor connected between said cone and said disc, and a number of coaxial cables, each adapted to feed a different additional antenna, said cables having their outer conductors fused together, said fused cables forming one or more turns of said inductor, with the outer conductors forming the turns of said inductor and the inner conductors feeding separate additional antennas.

9. (Original) The antenna of Claim 1 and further including a second disc antenna adjacent thereto, said disc serving as the disc for said second disc antenna.
10. (Original) The antenna of Claim 1, wherein said skeleton is collapsible.
11. (Original) The antenna of Claim 1, and further including an additional disc antenna, said disc antennas covering different frequency bands, the disc antenna having the lower frequency band having said skeleton cone with said stubs, whereby the size of said low frequency band antenna is minimized.
12. (Currently amended) A method for reducing the low frequency cutoff of a disc antenna having a circular disc and a cone spaced therefrom, comprising the steps of:
- forming the cone with a series of separate electrically conductive elongated straight members extending from the apex of the cone; and,
- interposing a localized meander line stub in an electrically conductive member, ~~whereby the overall size of the cone can be minimized.~~